

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : TORAY IND INC

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(54) PRODUCTION OF ELECTRICALLY CONDUCTIVE MATERIAL

(57)Abstract:

PURPOSE: To obtain an electrically conductive base having high electrical conductivity and excellent mechanical strength, by processing a mixture of carbon short fibers and a processing medium containing an organic binder to give a sheetlike intermediate material, impregnating the intermediate material with a mixed resin comprising two phenolic resins and carbonizing the mixed resin.

CONSTITUTION: A sheetlike or lamellar intermediate material wherein carbon short fibers are mutually bonded by an organic binder is formed by processing and the intermediate material is impregnated with a mixed resin of resol type phenolic resin and novolak type phenolic resin. Then, the intermediate material impregnated with the mixed resin is heated and the mixed resin is carbonized. Filament bundle of polyacrylonitrile-based carbon fiber having relatively high mechanical strength is cut into about 3W20mm, opened and preferably used as the carbon short fibers. Polyvinyl alcohol, hydroxyethyl cellulose, polyethylene oxide, polyacrylamide, polyester, etc., may be cited as the organic binder.

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